

Warfighter Digital Visualization

Accelerating the Warfighter Decision Cycle

Booz Allen®

Booz Allen's digital visualization solution powered by artificial intelligence delivers an authoritative source of truth for simulation, modeling, and operation. We tailor each implementation to ensure the model is central to the mission and extends across the lifecycle. Our comprehensive approach includes a secure, accessible ecosystem that improves decision making, collaboration, and innovation.

Digital visualization solutions enhance operational readiness throughout mission preparation, execution, and post-recovery stages.



Capability

Our digital visualization ecosystem addresses connection and acquisition issues early in the system's development lifecycle, ensures procurement of essential warfighter materiel, and supports medical mission operations. Warfighter materiel and avatar digital visualizations enable optimization of warfighter loadout size, weight, and power as well as human performance. Digital transformation to agile materiel procurement improves form, fit, and function while reducing lead time and shortages. Telemedicine with augmented reality enhances support for mobile forces in operational and austere environments, or anywhere medical expertise is required. These digital visualization solutions are connected via digital threads, enabling end-to-end data transfer and optimization.

Booz Allen's cutting-edge technology drives digital transformation initiatives by:

- Establishing a single source of truth
- Enabling digital threads
- Improving traceability
- Providing active lifecycle management
- Enabling digital visualization
- Automating reporting
- Providing parametric-based trade
- Expediting cybersecurity assessment



Telemedicine

This augmented reality solution deployed over a standalone, private 5G network revolutionizes clinical decision support—offering real-time visualization and immersion, hands-free functionality, and remote expert collaboration. Telemedicine enhances casualty care by condensing time and distance in situations where evacuation to higher-level care is impeded or delayed. The technology underpinning this solution has been deployed at the edge and over advanced networks.



Materiel Visualization

Soft, semi-rigid, and rigid visualization, simulation, and modeling aids spatial computing and serves as a platform to assess impact to human performance in real time.



Camo Modeling

Warfighter camo visualization and design are overlaid on operational images in a digital environment to inform stakeholder decisions.



Product Lifecycle Management

Clothing digitization streamlines procurement through configuration-managed requirements in a single repository.



Modeling and Simulation

Model-based systems engineering (MBSE) and power simulation enable warfighter-as-a-system and squad-as-a-system design to meet 24-, 48-, and 72-hour missions. Anthropometric avatar models are paired with health and fitness data.



Artificial Intelligence

We use the power of AI to accelerate digital engineering, letting humans focus on more complex strategic innovations. Generative AI incorporates mission-specific and open-source information to analyze mission parameters and recommend the best course of action.

About Booz Allen

Booz Allen is the advanced technology company delivering outcomes with speed for America's most critical defense, civil, and national security priorities. We build technology solutions using AI, cyber, and other cutting-edge technologies to advance and protect the nation and its citizens. By focusing on outcomes, we enable our people, clients, and their missions to succeed—accelerating the nation to realize our purpose: **Empower People to Change the World.®**

Contact Information

Dr. Leonard Go

Go_Leonard@bah.com

Jake Mathey

Mathey_Matthew@bah.com

For additional resources:

BoozAllen.com/Readiness